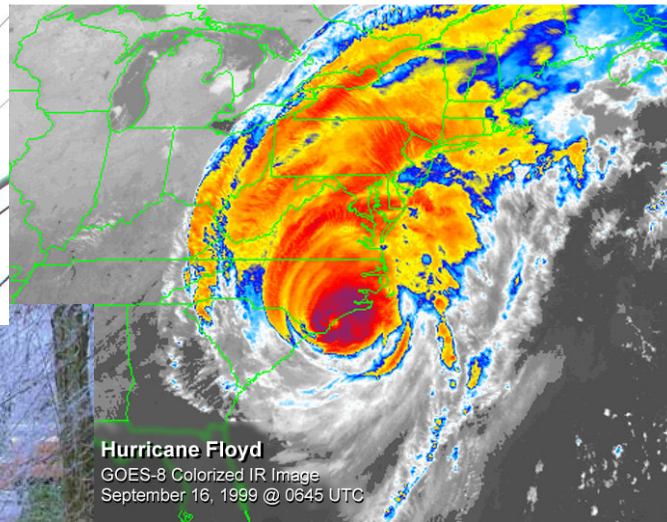


What Happens When the Lights Go Out?

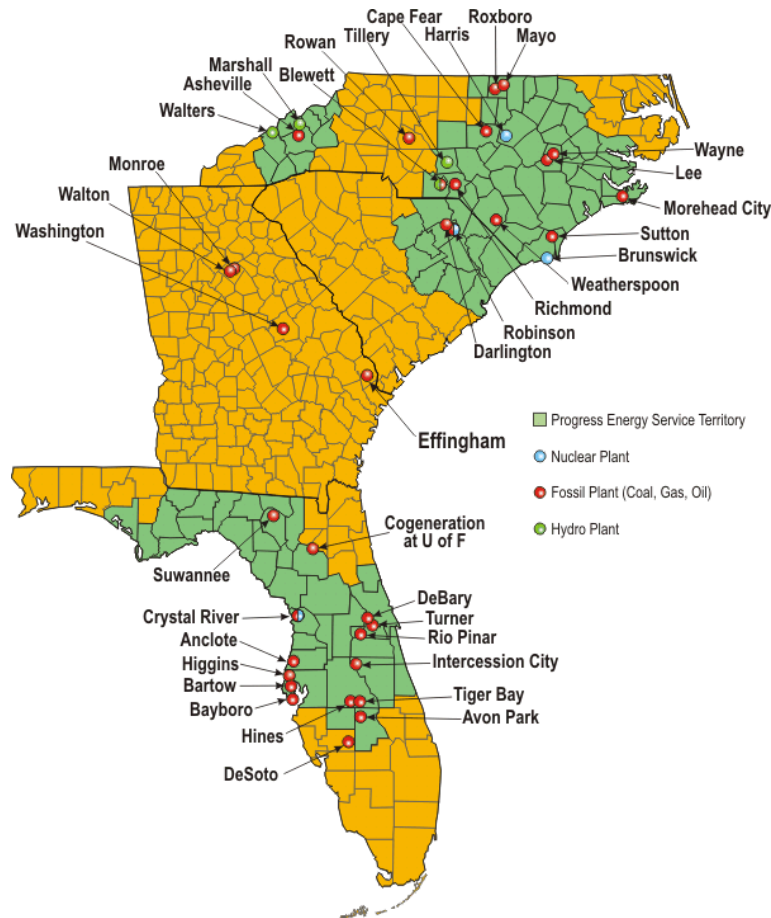


SC Public Service Commission
Emergency Preparedness
July 11, 2005



Progress Energy

Progress Energy



PGN Carolinas:

- 33,000 square miles of service territory
- Serving 1.3 million customers in the Carolinas

PGN Florida:

- 20,000 square miles of service territory
- Serving 1.5 million customers in the Florida



Looking at System Restoration

How do we prepare?

How do we restore power?

What happens when our customers call?

How Do We Prepare?

We start with a comprehensive response plan

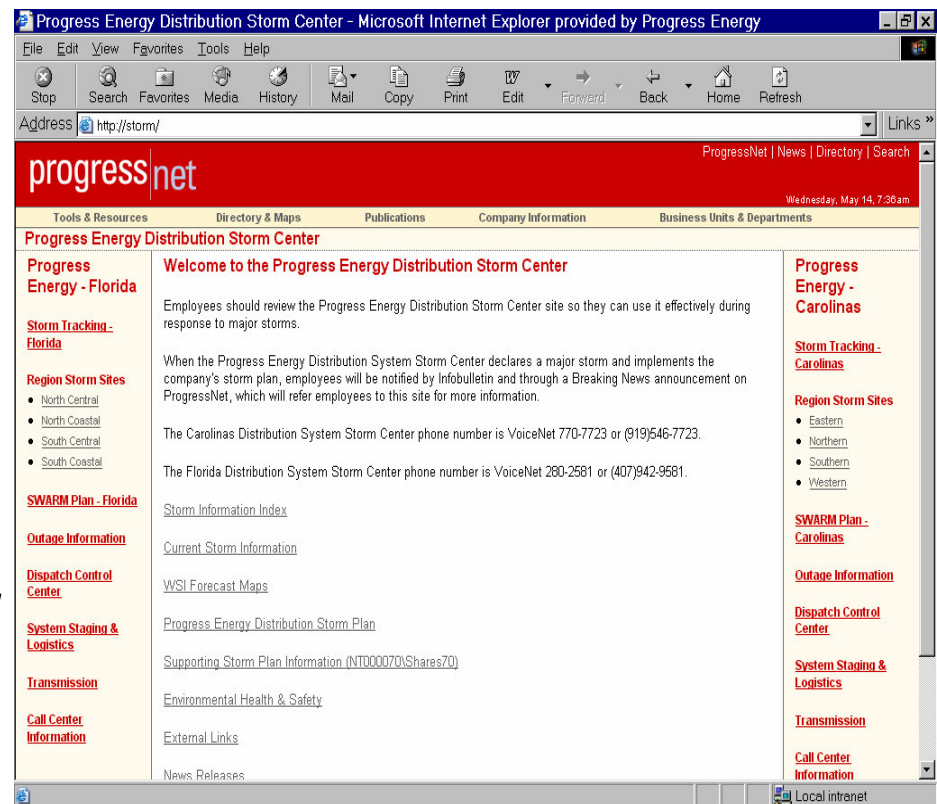


How do We Prepare?

Comprehensive response plans

Design Principles:

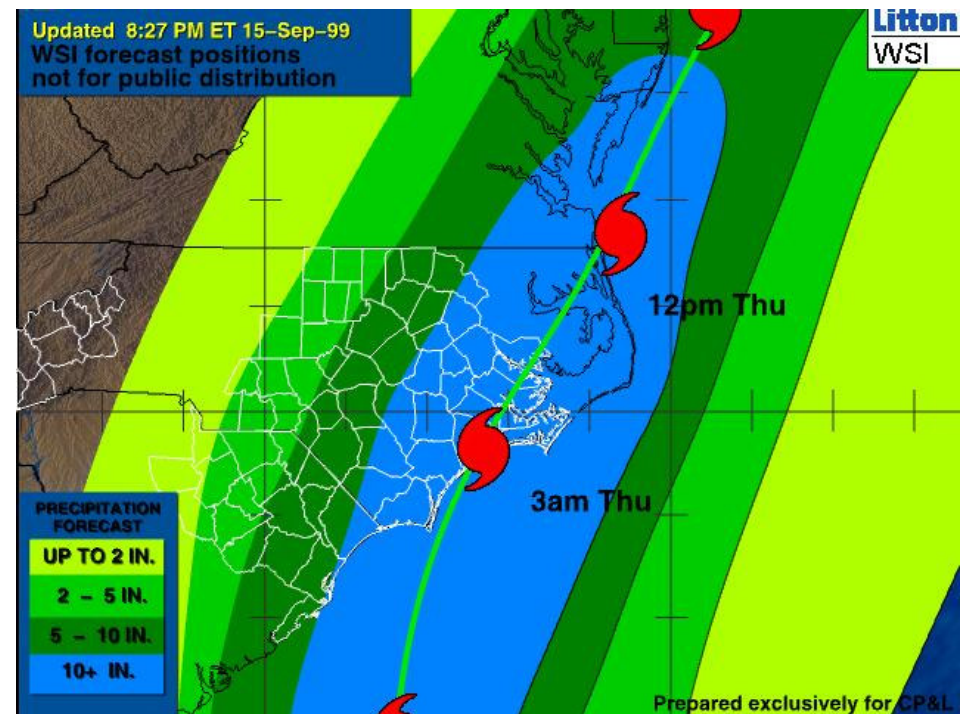
- *Staged response to events*
- *Defined structure for strategic and tactical activities*
- *Adaptable to all events (load reduction, restoration, hurricanes, ice/snow, thunderstorms)*
- *Employee storm roles*



How do We Prepare?

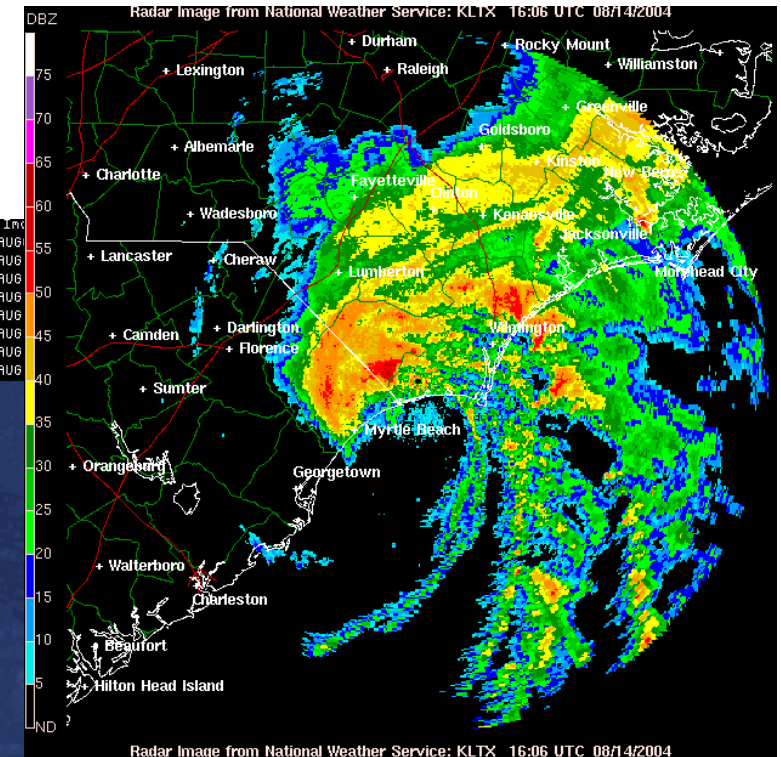
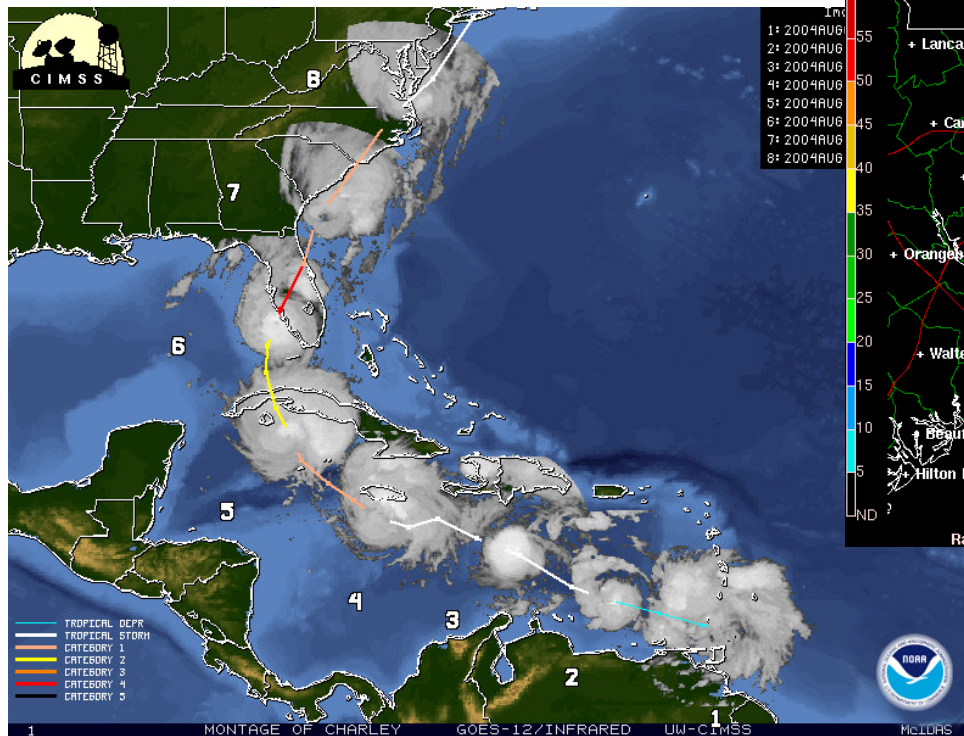
Comprehensive response plans

- Storm modeling:
 - ◆ *storm category*
 - ◆ *wind speeds*
 - ◆ *track*
 - ◆ *line miles exposed*
- Centralized support:
 - ◆ *resource mobilization*
 - ◆ *damage assessment*
 - ◆ *staging and logistics*
- Local focus on restoration and customer service



How Do We Prepare?

- Comprehensive response plan
- Monitor the Weather





How Do We Prepare?

- Comprehensive response plan
- Monitor the Weather
- Managing Resources - How Soon and How Many
 - ◆ Resources in the field . . . on-system and off-system
 - ◆ Customer Service Center Resources

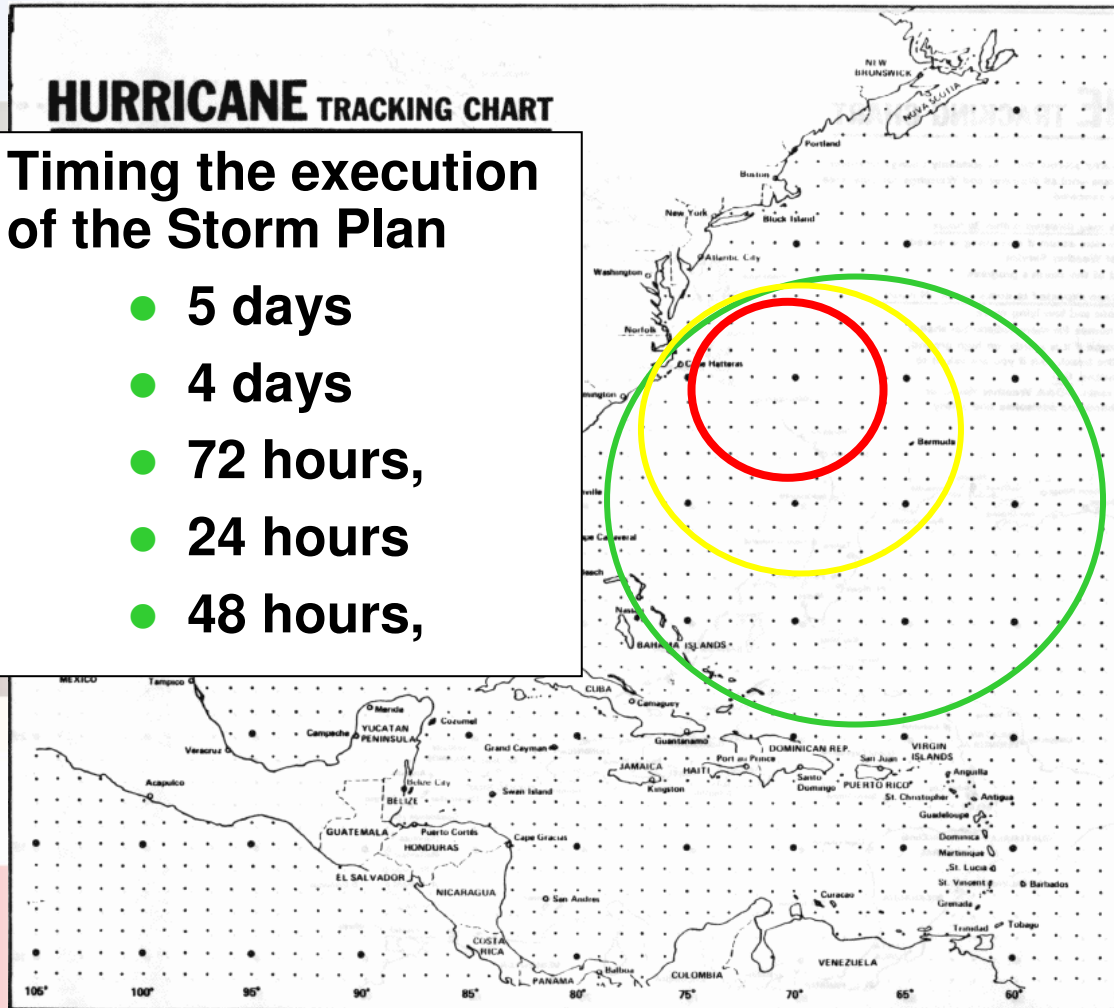
Storm Preparation

Commit to the Plan

HURRICANE TRACKING CHART

Timing the execution of the Storm Plan

- 5 days
- 4 days
- 72 hours,
- 24 hours
- 48 hours,



72 Hours before TS winds

48 Hours before TS winds

24 Hours before TS winds

- Review resource needs against current forecast and adjusted mobilization
- Deploy staging and logistics team personnel to appropriate locations
- Final staging teams set to deploy to inland sites at landfall
- Pre-deploy damage assessment teams into impacted areas

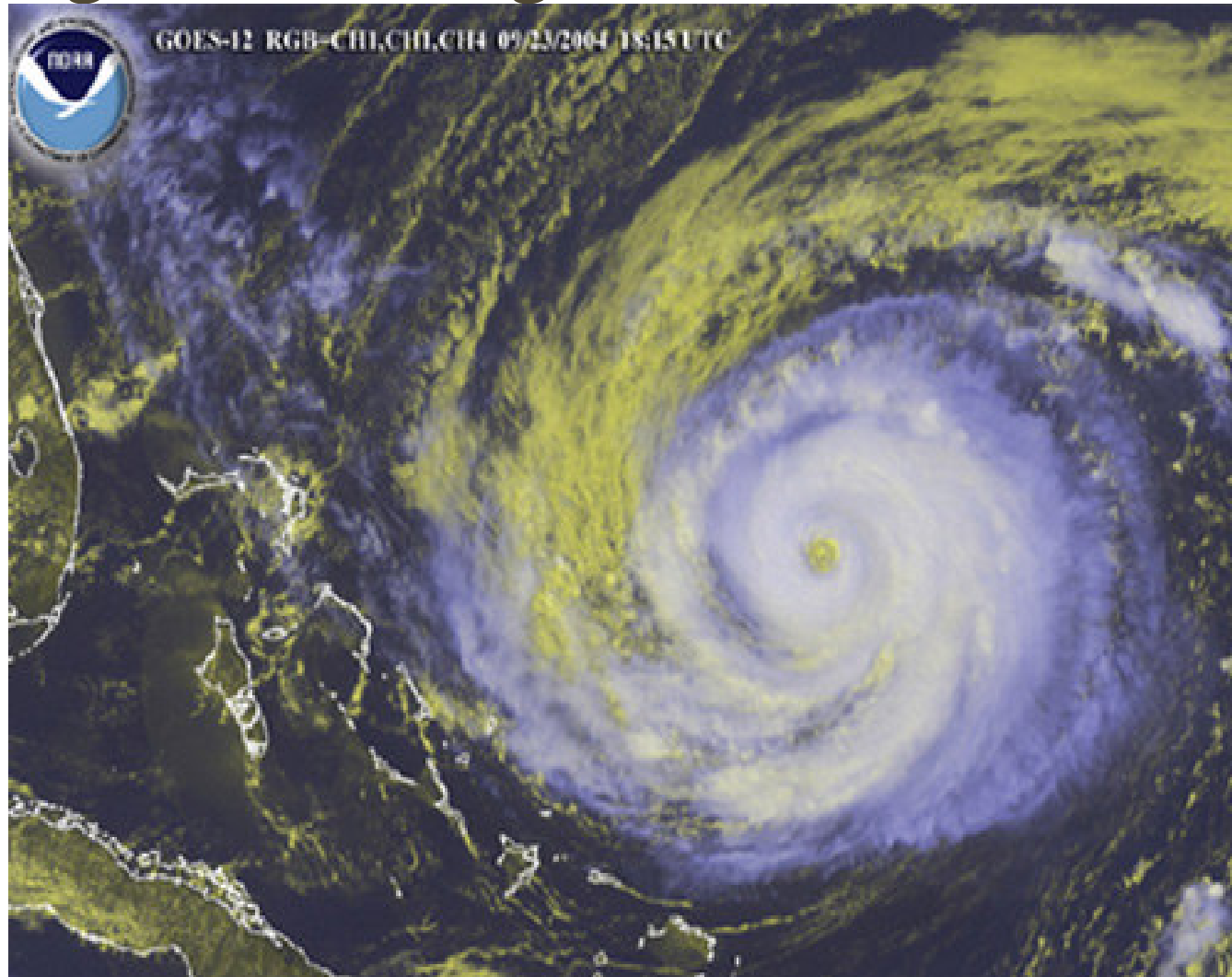
It's a war out there...

Managing the resources

- ***What We Replaced During Four Hurricanes***
 - ◆ ***More than 6.5 million feet (nearly 1,235 miles) of primary and secondary wire were replaced***
 - ◆ ***We replaced 6,664 power poles – that's more than 50 miles if laid end to end.***
 - ◆ ***More than 4,000 overhead and underground transformers were replaced.***
 - ◆ ***We used more than 87,000 splices, which are used to reconnect severed power lines***



And then we did it again... and again...and again!



Then Jeanne



Dealing with the Elements!!!!



How Do We Restore Power?

- Damage assessment
- Work in priority order
- Communicate with our customers



Communicate with our Customers



Customer



Computer



Customer
Service Rep



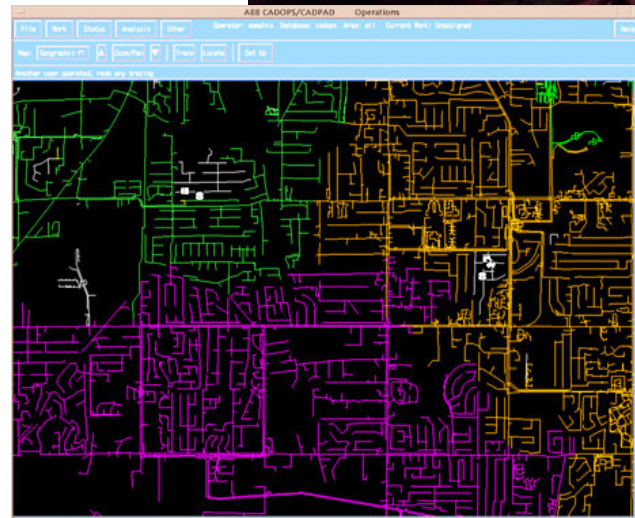
Dispatcher



Truck

What Happens When You Call Outage Management Technology

- Voice response unit capable of handling 125,000 calls per hour
- Automated trouble call analysis
- Real-time restoration status available for customers



In Conclusion....

the keys to success require

- *Management Leadership*
- *Employee involvement and commitment*
- *Comprehensive storm plan with flexibility*
- *Commitment and plan to keep customers informed with restoration information*
- *Focus on relentless learning and improvement*
 - ◆ *People, Processes, and Technology*